PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 3179WO0P	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/009486	International filing date (day/month/year) 29 June 2004 (29.06.2004)	Priority date (day/month/year) 30 June 2003 (30.06.2003)	
International Patent Classification (8) See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237		
Applicant TAKEDA PHARMACEUTICAL CC	MPANY LIMITED		

1.	This international preliminary re International Searching Authoric	eport on patentability (Chapter I) is issued by the International Bureau on behalf of the ty under Rule 44 bis.1(a).
2.	In the attached sheets, any refere	of 8 sheets, including this cover sheet. Ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.
3.	This report contains indications	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Вох №. Ш	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VΠI	Certain observations on the international application
4.	The International Bureau will co not, except where the applicant redate (Rule 44bis .2).	mmunicate this report to designated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 93 <i>bis</i> .1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority

Date of issuance of this report 01 May 2006 (01.05.2006)

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The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

INTER		NAL SEARCHII	NG AUTHOR	ITY		"ANC.
Го:						PCT PCT
			·	`.	WF INTERNAT	RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
		•				(PCT Rule 43bis.1)
					Date of mailing (day/month/year)	
	ant's or a	igent's file referen OP	ce		FOR FURTHER	ACTION See paragraph 2 below
		plication No.	40.6	International filing date (day/month/year)	Priority date (day/month/year)
		2004/009		29.06.2004		30.06.2003
Interna	tional Pa	atent Classification	n (IPC) or both	n national classification an	d IPC	
Applica	nnt			-		
TAF	EDA	PHARMAC	EUTICAI	COMPANY LI	MITED	
1.	This c	ppinion contains in	rdications relat	ting to the following items	:	
•	\boxtimes	Box No. I	Basis of the			•
		Box No. 11	Priority			
	\boxtimes	Box No. III	Non-establis	shment of opinion with reg	ard to novelty, inventi	ve step and industrial applicability
	\boxtimes	Box No. IV		y of invention		·
		Box No. V	Reasoned sta applicability	atement under Rule 43bis. citations and explanation	I(a)(i) with regard to make supporting such state	ovelty, inventive step or industrial
	\boxtimes	Box No. VI	Certain docu		., .	
		Box No. VII .	Certain defe	cts in the international app	lication	
	\bowtie	Box No. VIII	Certain obse	rvations on the internation	al application	
2.	FURT	THER ACTION				
	than th	his one to be the	y Examining / IPEA and the o	Authority ("IPEA") except	that this does not ann	be considered to be a written opinion of the ly where the applicant chooses an Authority other an under Rule $66.1bis(b)$ that written opinions of
	willie	i repry rogemer.	where appropr	considered to be a writter riate, with amendments, l of 22 months from the prio	before the expiration	the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later
		rther options, see			,	,
3.	For fu	rther details, see n	otes to Form P	CT/1SA/220.		
Name a	nd maili	ng address of the	ISA/JP		Authorized officer	
Facsimi	le No.				Telephone No.	

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Bo	No. I	Basis of this opinion
1.	With reg	eard to the language, this opinion has been established on the basis of the international application in the language in which it was less otherwise indicated under this item.
	TH	nis opinion has been established on the basis of a translation from the original language into the following language
	Ri	which is the language of a translation furnished for the purposes of international search (under the 12.3 and 23.1(b)).
2.	With re- inventio	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed in this opinion has been established on the basis of:
	a. tyj	pe of material
		a sequence listing
		table(s) related to the sequence listing
	b. for	mat of material
		in written format
		in computer readable form
	c. tin	ne of filing/furnishing
	<u> </u>	contained in the international application as filed.
		filed together with the international application in computer readable form.
	L.	furnished subsequently to this Authority for the purposes of search.
3.		addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or nished, the required statements that the information in the subsequent or additional copies is identical to that in the application as add or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addition	al comments:
		·

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Box No.	. III Non-establishment of opinion with	regard to novelty, inventive step and industrial applicability
The ques	estions whether the claimed invention appears ble have not been examined in respect of:	to be novel, to involve an inventive step (to be non obvious), or to be industrially
	the entire international application	
	claims Nos. 9-11, 16	·
becau	nuse:	
	and the said the said t	claims Nos. 9-11, 16 bes not require an international preliminary examination (specify):
	Claims 9-11 and 16 relates a m	nethod for treatment of the human body by
1	therapy, which does not requir	e an international preliminary examination in 34 (4) (a) (i) and PCT Rule 67.1(iv).
	The description of the second	
	the description, claims or drawings (indicate'p are so unclear that no meaningful opinion coul	d be formed (specify):
	the claims, or said claims Nos.	are so inadequately supported
	by the description that no meaningful opinion of	could be formed.
	no international search report has been establis	hed for said claims Nos. 9–11, 16
	the nucleotide and/or amino acid sequence list Instructions in that:	ing does not comply with the standard provided for in Annex C of the Administrative
	the written form	nas not been furnished
		loes not comply with the standard
	the computer readable form	as not been furnished
		loes not comply with the standard
	•	no acid sequence listing, if in computer readable form only, do not comply with the
	technical requirements provided for in Annex C	'-bis of the Administrative Instructions.
	See Supplemental Box for further details.	

WRITTEN OPINION OF THE

International application No.

INTERNATIONAL SEARCHING AUTHORITY	PCT/JP2004/009486
Box No. IV Lack of unity of invention	
1. In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant ha	is:
paid additional fees	
paid additional fees under protest	
not paid additional fees	
2. This Authority found that the requirement of unity of invention is not complied with additional fees.	and chose not to invite the applicant to pay
3. This Authority considers that the requirement of unity of invention in accordance with Rules 1	3.1, 13.2 and 13.3 is
complied with	
not complied with for the following reasons:	
While the inventions in claims 1, 4-6, and 12 is a prevent agents for dysuria that do not inhibit urine collection function compounds that possess acetylcholine esterase inhibition activity in claims 2, 7, and 13 is a preventive/therapeutic agent for a therapeutic agents for dysuria containing these compounds, claims 3, 14, 15, and 17 is a preventive/therapeutic agent for not concomitant with dry mouth containing these compounds of claim 8 is a screening method for preventive/therapeutic dysuria that do not inhibit urine collection function character measurement/comparison with experimental acetylcholines activity and butylcholinesterase inhibition activity. However, dysuria differs greatly from hyperactive blade induced by the administration of theraputic agents for dysuria and therapeutic drugs used for therapy, and screening methor preventive/therapeutic substances for dysuria that do not infunction are not acknowledged as methods particularly approproduction of preventive /therapeutic substances for dysuria urine collection function; accordingly, the inventions in claims 3 the inventions in claims 2, 7, and 13, the inventions in claims 3 the invention in claim 8 do not have a common matter that a special technical feature in the sense of the second sentent and no technical relevancy is found in the sense of PCT Rulinventions differing from each other. Such being the case, it does not appear that there is a tech between these inventions involving one or more of the same special technical feature; therefore these inventions are not so linked as to from a single general inventive concept.	on and comprising ctivity and that do not a, while, the inventions dry mouth induced by the inventions in or hyperactive bladder ds, and the invention substances for erized by sterase inhibition der and dry mouth ria in cause of disease ods for hibit urine collection ropriate for the a that do not inhibit ims 1, 4-6, and 12, the 14, 15, and 17, and could be construed as the conference of PCT Rule 13.2 le 13 among these thical relationship considered as being
4. Consequently, this opinion has been established in respect of the following parts of the international parts	ional application:
the parts relating to claims Nos. 1, 4-6, 12	

WRITTEN OPINION OF THE

International application No.

	NAL SEARCHING AUTHORITY	PCT/JP2004/009486
Box No. V Reasoned stateme citations and expla	ent under Rule 43bis.1(a)(i) with regard to novelty, anations supporting such statement	inventive step or industrial applicability;
. Statement	The state of the s	
Novelty (N)		
	Claims 1, 4-6, 12	YE:
	Craims	NO
Inventive step (1S)	Claims	YE
	Claims 1, 4-6, 12	NO
Industrial applicability (IA)	Claims	
• •	Claims 1, 4-6, 12	YE
		NO
. Citations and explanations:		
Document 1 de effect towards acetylch specification as a comp	s described in claims 1, 4-6, and 12 dinventive step based on document 1 escribes a noncarbamate amine compholinesterase such as compound A spound having acetylcholinesterase in ylcholinesterase inhibition activity exagent for dysuria.	cited in the ISR. pound having inhibition pecifically disclosed in the phibition activity and not
	•	
	•	

International application No.

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	Application I Patent No		Publication date (day/month/year)	Filir (day/m	ng date onth/year)	Priority date (valid cla (day/month/year)
WO 0	3/57254		17.07.2003		2.2002	28.12.200
[EX]						
			,			
			•			
		43 <i>bis</i> .1 and 70.9			Date	of written disclosure
	d of non-writter		Date of non-writte (day/month/	n disclosure vear)	referring	of written disclosure to non-written disclosure day/month/year)
			Date of non-writte	n disclosure veur)	referring	to non-written disclosure
			Date of non-writte	n disclosure veur)	referring	to non-written disclosure
			Date of non-writte	n disclosure veur)	referring	to non-written disclosure
			Date of non-writte	n disclosure vear)	referring	to non-written disclosure
			Date of non-writte	n disclosure veur)	referring	to non-written disclosure
			Date of non-writte	n disclosure veur)	referring	to non-written disclosure
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	d of non-writter	n disclosure	Date of non-writte (day/month/	n disclosure vear)	referring	to non-written disclosure
	d of non-writter	n disclosure	Date of non-writte (day/month/	vear)	referring	to non-written disclosure
	d of non-writter	n disclosure	Date of non-writte (day/month/	vear)	referring	to non-written disclosure day/month/vear)
	d of non-writter	n disclosure	Date of non-writte (day/month/	vear)	referring	to non-written disclosure day/month/vear)

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Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1, 4-6, and 12 relate to a preventive/therapeutic agent for dysuria that does not inhibit urine collection function and that has an active ingredient defined by desired properties of "having acetylcholinesterase inhibition activity but substantially not having butylcholinesterase inhibition activity." Claims 1, 4-6, and 12 include any compound having such properties, only a very small portion of the claimed compounds are acknowledged to be supported in the specifications in the sense of PCT Article 6 and disclosed in the sense of PCT Article 5.

In addition, for "compounds having acetylcholinesterase inhibition activity but substantially not having butylcholinesterase inhibition activity," the range of compounds having such properties cannot be specified, even taking into consideration common general technical knowledge at the time of application; therefore claims 1, 4-6, and 12 do not fulfil the requirement of clarity in PCT Article 6.